Photographic Processing - Cox
1971
Hum
TR
287
S95

Contents

Contributors v
Preface vii
The Science Committee of The Royal Photographic Society . . x

The Induction of Development

The Initiation of Development 3
T. H. JAMES
Induction of Development as Determined by a Chemical Reaction 15
J. KARRER and W. F. BERG
Studies of the Earliest Stage of Photographic Development by Measurement of Extinction 27
H. FRIESER and M. SCHLESINGER

General Mechanisms

A General Mechanism of Photographic Development . . . 37
R. G. WILLIS and R. B. PONTIUS

Conservation

The Desilvering of Bleach-Fix-Solutions by Electrolysis . . . 41
C. J. SHARPE
Fixer Composition and Washing Rates 53
A. GREEN and G. I. P. LEVENSON
Washing Monobathed Film 63
A. GREEN and M. G. RUMENS

Superadditivity in Development

Superadditive Black and White Developing Agents 71
J. F. WILLEMS
Superadditivity in Colour Development 101
G. F. VAN VEELEN
The Autoxidation of PQ Solutions 131
G. I. P. LEVENSON and M. G. RUMENS
Development by Metals 145
MAX MEIER

Dye-bleach Processes

Dye-bleach Processes 151
JACK H. COOTE
Practical Aspects of Silver Dye-bleach Processing 159
A. MEYER
Basic Electrochemical Aspects of the A_2O Dye-bleach Process . 173
E. GÜNTHER and R. MATEJEC
The Reductive Cleavage of A_2O Dyes in Strongly Acid Solutions 179
M. SCHELLENBERG

General Processing Studies

Influence of Development Retarders on the Colour Reversal Process 183
H. D. MEISSNER
Auto-coupling Development 195
L. LUGOSY, M. GROSSA and W. PISTOR
An Original Method for Computing Overall Diffusion Coefficients of Oxidized Colour Developers in Gelatin 197
G. GEHIN
Dihydroxyfuran Developing Agents 207
R. W. HENN and I. A. OLIVARES
Superadditivity Effects in the Photographic Bleaching Process . 223
J. F. WILLEMS
The Treatment after Development in Rapid Processing . . . 239
M. AELTERMAN and G. VANREUSEL
A New Process for Dental Radiography 253
A. GREEN and G. I. P. LEVENSON
Processing of Emulsion Photomasks for Semiconductor Applications 265
K. G. CLARK
Early Stages in Chemical Development. 285
W. E. MUELLER
Electron-Microscope Studies on Chemical Development . . . 291
W. GROSS
Influence of Development on the Properties of Non-exposed Grains 299
S. COUPRIÉ
Straight-line Photographic Processing Devices 311
S. KITROSSER and H. K. HOWELL
Author Index 327
Subject Index 331